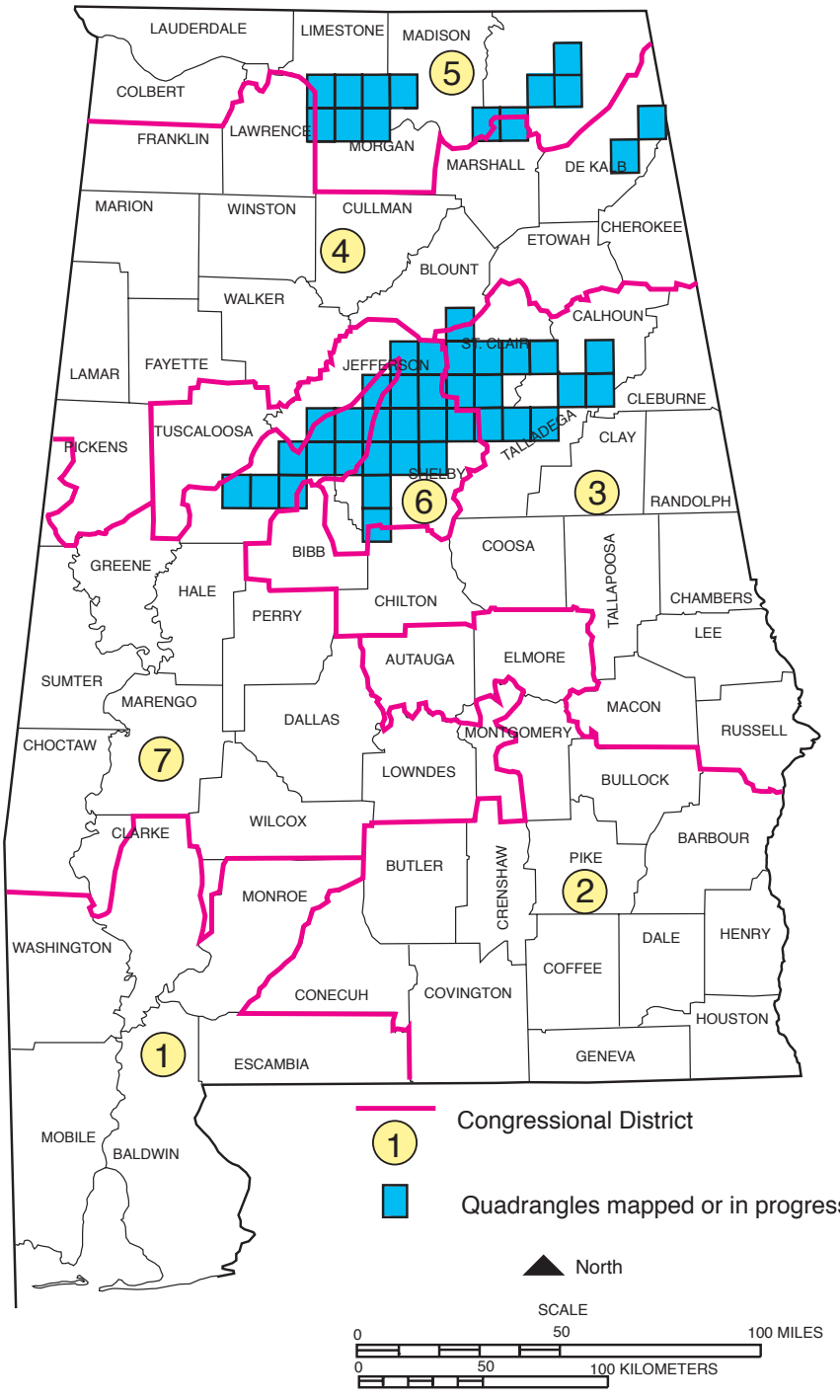
Association of American State Geologists

United States Geological Survey

National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping

ALABAMA



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SUMMARY OF STATEMAP
GEOLOGIC MAPPING PROGRAM IN ALABAMA

Federal Fiscal Year	Project Title and Scale	State Dollars	Federal Dollars	Total Project Dollars
93	Leeds quadrangle, 1:24,000	$20,000	$20,000	$40,000
94	Helena quadrangle, 1:24,000	$17,608	$17,608	$35,216
95	Alabaster and Anniston quadrangles, 1:24,000	$30,000	$30,000	$60,000
96	Anniston area, 1:24,000	$66,293	$66,293	$132,586
97	Tuscaloosa-Birmingham corridor, 1:24,000	$75,053	$75,053	$150,106
98	North Birmingham, Year 1, 1:24,000	$51,456	$51,456	$102,912
99	North Birmingham, Year 2, 1:24,000	$106,762	$106,762	$213,524
00	Shelby County, 1:24,000	$102,870	$102,870	$205,740
01	Honda Plant site and Decatur area, Year 1, 1:24,000	$127,550	$127,550	$255,100
02	Honda Plant site and Decatur area, Year 2, 1:24,000	$144,853	$144,853	$289,706
03	Honda Plant site, Year 3 and Tuscaloosa, 1:24,000	$85,176	$85,176	$170,352
04	I-459 and Fort Payne, 1:24,000	$92,119	$92,119	$184,238
05	Fort Payne, Year 2 and Corridor 7 (U.S. 72), 1:24,000	$88,486	$88,486	$176,972
06	Corridor 7 (U.S. 72), 1:24,000	$105,037	$105,037	$210,074
TOTALS		**$1,113,263**	**$1,113,263**	**$2,226,526**

EXAMPLE OF STATEMAP OUTCOME

The Coaling, Alabama, 7.5-minute quadrangle is situated midway between Tuscaloosa and Birmingham where structurally complex Paleozoic sedimentary rocks of the Appalachian thrust belt plunge beneath unconsolidated clastic sediments of Late Cretaceous age. A $300 million Mercedes-Benz International passenger vehicle manufacturing facility was completed within the quadrangle in 1996, and a $600 million expansion is currently underway that will double the work force and size of the plant. Recognizing the potential for future industrial and urban growth, the Geological Survey of Alabama's State Mapping Advisory Committee designated the area as the highest mapping priority during its 1996 meeting. Geologic mapping of the Coaling quadrangle began in 1997 and was completed in 1998. The published geologic map was released in 2000. The geologic map of the Coaling quadrangle is currently being extensively used by the aggregate industry in the continued search for high-quality construction materials to support the growing infrastructure of the area, and planners and developers are using the map in the planning for and mitigation of geologic hazards (sinkholes and landslides) and for foundation studies. As an additional benefit, the geologic map reflects significant advances in our understanding of the stratigraphy and structural geology of the area and is an important part of the structural and stratigraphic syntheses recently completed by Dr. William A. Thomas and his students (University of Kentucky).

February 2006